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CLAIMS

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- 1. A method for transmitting control information on a control channel associated with a traffic channel, comprising the steps of:
- a) determining the traffic channel to be either a full- or half rate channel or a quarter rate channel; and
 - b1) as a response to determining the traffic channel to be a full- or half rate channel at step a), transforming a control information block of fixed size into a first number of control information bursts and transmitting all these control information bursts, or alternatively
- b2) as a response to determining the traffic channel to be a quarter rate channel at step a),
 - transforming a control information block of said fixed size into a second number of control information bursts, where said second number is smaller than the first number,
- 15 transmitting said second number of control information bursts,
 - checking, whether a retransmission is requested concerning said second number of transmitted control information bursts, and
 - if a retransmission is requested concerning said second transmitted control information bursts, transmitting another number of control information bursts describing the contents of the control information block which was transformed into said second number of transmitted control information bursts.
 - 2. A method according to claim 1, wherein step b1) comprises the step of transforming a control information block of fixed size into four control information bursts and step b2) comprises the step of transforming a control information block of said fixed size into two control information bursts.
- A method according to claim 2, wherein step b2) comprises the step of
 - if a retransmission is requested concerning said second transmitted control
 information bursts, transmitting another two control information bursts describing
 the contents of the control information block which was transformed into said two
 transmitted control information bursts.
- 4. A method for receiving control information on a control channel associated with a traffic channel, comprising the steps of:
 - a) determining the traffic channel to be either a full- or half rate channel or a quarter rate channel; and

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- b1) as a response to determining the traffic channel to be a full- or half rate channel at step a), buffering a first number of received control information bursts and transforming them into a control information block of fixed size, or alternatively
- b2) as a response to determining the traffic channel to be a quarter rate channel at step a),
 - buffering a second number of received control information bursts, where said second number is smaller than the first number,
 - attempting the transformation of said second number of control information bursts into a control information block of fixed size,
- checking, whether the attempted transformation of said second number of control information bursts into a control information block of fixed size was successful, and if the attempted transformation of said second number of control information bursts into a control information block of fixed size was not successful, requesting for a retransmission concerning said second number of transmitted control information bursts and attempting the transformation of said second number of control information bursts together with a retransmission concerning them into a control information block of fixed size.
- 5. A method according to claim 4, wherein step b1) comprises the step of buffering four received control information bursts and step b2) comprises the steps of buffering two received control information bursts and attempting the transformation of said two received control information bursts into a control information block of fixed size.
- 6. A method according to claim 5, wherein step b2) comprises the step of

 if the attempted transformation of said two received control information bursts into
 a control information block of fixed size was not successful, requesting for a
 retransmission of another two control information bursts and attempting the
 transformation of all received four control information bursts into a control
 information block of fixed size.